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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

WARD 7: BYATARAYANAPURA

Name of work:- Improvements to drains of 15 th to 18th cross roads of jakkur layout in ward No.07, Byatarayanapura

Estimate Cost: 50.00 lakhs

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Estimated Cost:- 50.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	RCC DRAIN								
	2nd B cross		2	105.00	0.75	0.90	141.75		
	3rd B cross		2	110.00	0.75	0.90	148.50		
	4th B cross		2	110.00	0.75	0.90	148.50		
	WO 132- desilting of existing drain		2	55.00	0.75	0.90	74.25		
	Berm cutting		1	40.00	1.00	0.60	24.00		
					TOTAL		**537.00**	86.92	46677.00
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	RCC DRAIN- BOTTOM								
	2nd B cross		2.00	105.00	0.75	0.15	23.63		
	3rd B cross		2.00	110.00	0.75	0.15	24.75		
	4th B cross		2.00	110.00	0.75	0.15	24.75		
	For ramps- (Length for shoulder drains deducted)		2.00	75.00	0.30	0.10	4.50		
			2.00	135.00	0.30	0.10	8.10		
			2.00	85.00	0.30	0.10	5.10		
			2.00	55.00	0.30	0.10	3.30		
					TOTAL		**94.13**	5159.02	485593.00

3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)								
	Basic Rate:	cum	6011.00						
	Area Weightage @ 6%		360.66						
	Total		6371.66						
	Bottom								
	2nd B cross		2.00	105.00	0.75	0.15	23.63		
	3rd B cross		2.00	110.00	0.75	0.15	24.75		
	4th B cross		2.00	110.00	0.75	0.15	24.75		
	Side Wall								
	2nd B cross	**2x2**	4.00	105.00	0.15	0.60	37.80		
	3rd B cross	**2x2**	4.00	110.00	0.15	0.60	39.60		
	4th B cross	**2x2**	4.00	110.00	0.15	0.60	39.60		
							190.13	6371.66	1211412.00
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)								
	Basic Rate:	Tonne	60607.00						
	Area Weightage @ 6%		3636.42						
	Total		64243.42						
	Reinforcement for side wall						190.13		
			At 55 Kg % per cum				**10.46**	64243.42	671786.00
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	366.00						
	Area Weightage @ 6%		21.96						
	Total		387.96						
	SIDE WALL								
	2nd B cross	2x4	8	105.00		0.60	504.00		
	3rd B cross	2x4	8	110.00		0.60	528.00		
	4th B cross	2x4	8	110.00		0.60	528.00		
							1560.00	387.96	605218.00

	Providing and constructing load bearing wall with solid concrete solid blocks having block density not less than 18000 Kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confimring to IS 2185 (pART 1):2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materialsincluding cost of all materilas, labour charges, scaffolding, curing complete as per specifications. with solid concrete blocks 400x200x200mm (PWDSR 2015-16, I. 5.27.1, P. 25.1)								
	Basic Rate:	Sqm	937.00						
	Area Weightage @ 6%		56.22						
	Total		993.22						
	To raise the level of drain side wall- WO132	2X2	4.00	55.00		0.20	44.00		
							44.00	993.22	43702.00
7	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic Rate:	cum	5441.00						
	Area Weightage @ 6%		326.46						
	Total		5767.46						
	For ramps- (Length for shoulder drains deducted)		2.00	75.00	0.30	0.10	4.50		
			2.00	135.00	0.30	0.10	8.10		
			2.00	85.00	0.30	0.10	5.10		
			2.00	55.00	0.30	0.10	3.30		
	To raise the level of drain side wall- WO132	2x2	4.00	55.00	0.20	0.10	4.40		
							25.40	5767.46	146494.00
8	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data								
	DETA RATE	**Sqm**							
	Covering Slab								
	2nd B cross		2	105		0.75	157.50		
	3rd B cross		2	110		0.75	165.00		
	4th B cross		2	110		0.75	165.00		
	WO 132		2	55		0.90	99.00		
							586.50	2100.00	1231650.00
9	Providing and fixing MS Grating 260x260 mm(Page No.VIII, Sl No.237, code No.0771)								
	Basic Rate:	Nos	89.00						
	Area Weightage @ 6%		5.34						
	Total		94.34						
	For shoulder drians								
	2nd B cross		10				10.00		
	3rd B cross		10				10.00		
	4th B cross		10				10.00		

	WO 132		5				5.00		
							35.00	94.34	3301.90
10	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				537.00	106.00	56922.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10Km		**32.00**						
	Total		**100.00**						
	Add Area Weightage6%		**6.00**						
			106.00						
11						**Sub Total**			4502755.90
12						**Add 10% KRIDL charges**			450275.59
13						**Add 1% Labourc ess charges**			45027.56
						Miscelleneous charges			1940.95
14						**Total**			5000000.00
	1)This is certified that the work spot comes under BBMP limits only.								
	2) The work spot is inspected by me								
	3) The items Provided in the Estimate are quite Essential								
	4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.								
	Asst.Engineer Ward no.7		Asst.Exe.Engineer Kodigehalli Sub-division				Executive Engineer Byatrayanapura Division		
			B.B.M.P.				B.B.M.P.		

ADMINISTRATIVE APPROVAL

Accorded For Rs. Fifty lakhs only

Head of A/c. P-2652

Div. Ref. No. 135 /17-18 Date. 22/12/17

AE 22/12

EE(BTP) 22/12

Technical Sanction

Accorded For 50.00 lakh Rs

Head of A/C. P2652

CER NO : 518 Dt:. 12 01 18

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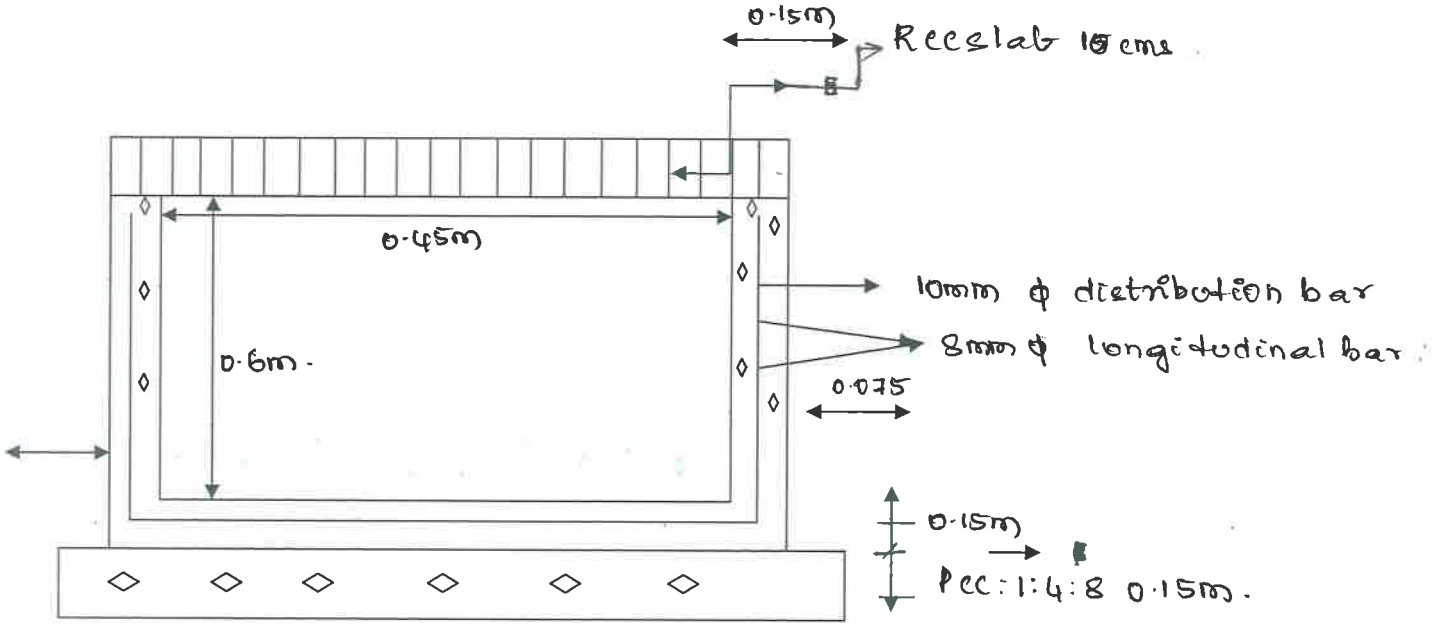
CE (YNK)

Name of work: improvements to drains of 15th to 18th cross roads of Jakkur layout in ward no. 07 byatarayanapura:



CROSS SECTION OF RCC DRAIN

AE(civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara P...
Bangalore - 560 092

Name of work:- Improvements to drains of 15th to 18th cross roads of Jakkur layout in Google ward no.07 byatarayanapura.

AE(W)

Asst. Engr.
Ward
Byatarayanapura